



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/035,366

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Applicant: Gary E. Horst

Group Art Unit: 2834

Examiner: Nguyen, Tran N.

Title: DOUBLY SALIENT MACHINE WITH ANGLED
PERMANENT MAGNETS IN STATOR TEETH

Attorney Docket: 5260-000017 (formerly EMER 2618)

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

In the Examiner's Statement of Reasons for Allowance mailed September 12, 2003, the stated reasons for allowance apply to claims 1, 2 and 4-10. Further, because every feature of independent claim 1 is included in the stated reasons for allowance, applicant respectfully submits that such features form the entire basis for allowance of claims 1, 2 and 4-10, and do not require "combination with other features recited in the claims."

Regarding claims 11-15, applicant respectfully submits that the reason for allowance of such claims is the recitation by independent claim 11 of a stator for use in a permanent magnet machine, the stator comprising: a frame having an outer

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peripheral edge and an inner peripheral edge extending about a central axis; a plurality of permanent magnets each having inwardly facing north poles; a first plurality of stator teeth each extending along a radial axis from the frame's inner peripheral edge toward the central axis, each of the first plurality of stator teeth having one of the permanent magnets located at least partly therein; and a second plurality of stator teeth extending from the frame's inner peripheral edge toward the central axis, the second plurality of stator teeth each having no permanent magnets located therein; wherein the first plurality of stator teeth are each positioned directly between two of the second plurality of stator teeth; wherein the north poles of the permanent magnets are each oriented at an oblique angle relative to the radial axis along which its corresponding one of the stator teeth extends; wherein each permanent magnet and its corresponding one of the stator teeth have a width extending in a direction of rotation of a rotor when the rotor is mounted for rotation about the central axis; and wherein the width of each permanent magnet is greater than the width of its corresponding one of the stator teeth.

Should there be any questions, the Patent Office is invited to call the undersigned at (314) 726-7500.

Respectfully submitted,

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